

# Grid-Connected PV Capacity (kW) Installed in California

<b>California Energy Commission*</b>	25,954
<b>California Public Utilities Commission*</b>	11,817
<b>Sacramento Municipal Utility District</b>	11,374
<b>Los Angeles Department of Water and Power</b>	7,525
<b>Pre-1998</b>	1,918
<b>City of Riverside Public Utilities</b>	379
<b>City of Anaheim Public Utilities</b>	275
<b>City of Palo Alto Utilities</b>	245
<b>City of Roseville Electric</b>	115
<b>City of Pasadena Water and Power</b>	84
<b>City of Santa Clara Electric Utility</b>	54
<b>City of Glendale Water and Electric</b>	19
<b>Pacific Power</b>	19
<b>City of Ukiah Public Utilities</b>	14
<b>City of Burbank Water and Power</b>	7
<b>City of Alameda Power and Telecom</b>	5
<b>City of Lodi Electric Utility</b>	4
<b>City of Redding Electric Utility</b>	2

<b>TOTAL</b>	<b>59,807 kW</b>
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<b>59.81 MW</b>
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This analysis tracks the capacity of grid-connected PV installations in California from 1981 until the present. The vast majority of the early installations can be attributed to the work done by the Sacramento Municipal Utility District (SMUD). Beginning in 1998, the Energy Commission's Emerging Renewables Program began offering rebates for grid-connected "emerging" systems in the service territories of the three largest Investor Owned Utilities (IOUs) - PG&E, SCE and SDG&E. In 2001, the Public Utilities Commission began the Self-Generation Incentive Program. The "Self-Gen" Program also offers rebates, but the program is administered by the utilities (PG&E, SCE, SDG&E and SCGC) directly. The Los Angeles Department of Water and Power (LADWP), as well as many of the smaller utilities, offer their own incentive programs.

\* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE and SDG&E. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

**Updated as of 12/31/2003**

# Grid-Connected PV Capacity Installed in California

Program	YEAR																							Total
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Sacramento Municipal Utility District	0	0	0	1,230	0	1,230	0	0	0	0	0	23	495	675	561	421	405	236	1,220	1,446	1,679	1,390	363	11,374
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181	619	726	4,034	8,110	12,283	25,954
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	360	487	2,041	4,951	7,416	15,316
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	250	133	1,118	2,117	3,167	6,905
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	106	866	1,042	1,675	3,700
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	24	33
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	432	589	2,573	3,829	7,525
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,889	9,928	11,817
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,671	4,208	5,879
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	2,649	2,763
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	1,971	2,045
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1,100	1,130
Pre-1998	37	38	11	12	15	63	-	4	59	15	17	477	806	(336)	(250)	378	110	464	-	-	-	-	-	1,918
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	101	74	38	245
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	34	14	4	54
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0	84
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	0	7
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	84	50	275
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	15	214	379
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	44	62	115
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	0	19
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	14
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
TOTAL	37	38	11	1,242	15	1,293	0	4	59	15	17	500	1,301	339	311	799	515	885	1,970	2,622	6,742	14,316	26,778	59,807
Cumulative Total	37	75	86	1,328	1,342	2,635	2,635	2,639	2,698	2,713	2,730	3,230	4,530	4,869	5,180	5,980	6,494	7,379	9,349	11,971	18,713	33,029	59,807	

## NOTES

\* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE and SDG&E. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

\*\* The 2003 data is current as of 12/31/2003.

\*\*\* The Southern California Gas Company (SCGC) has paid on over 4 MW of PV. However, the Gas Company has overlapping territory with several electric utilities that are reporting on the same projects. For projects that have participated in multiple programs with the Gas Company, the totals will be reported by electric utilities. Projects that have only participated in the Gas Company rebate program will be reported under the Gas Company header.

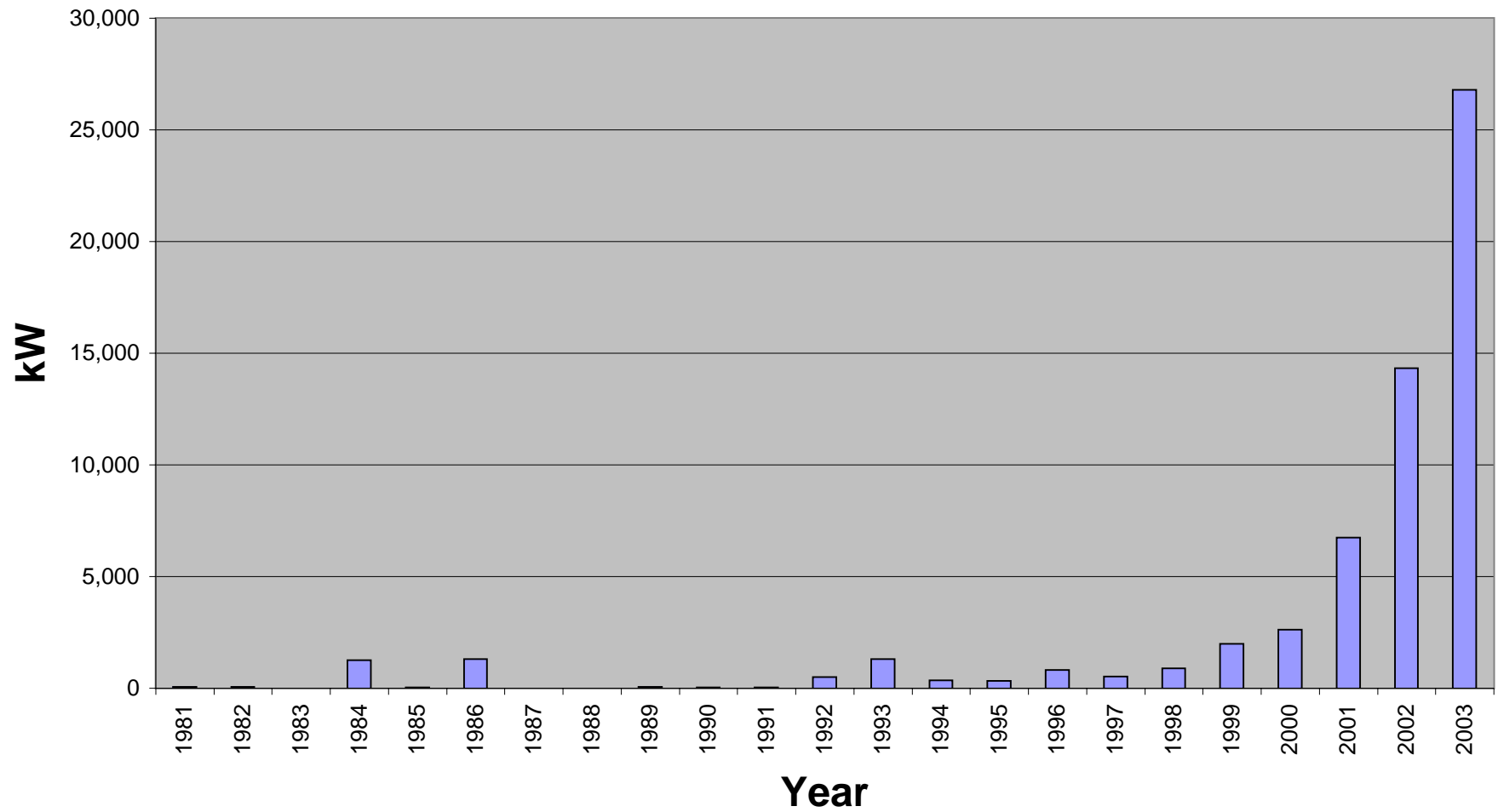
"Pre-1998" Row: These numbers were derived by subtracting the total kW installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions. Similarly, when determining the number of systems by year, the results showed negative numbers. Again, to be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.

In some cases, the 2002 totals for the smaller utilities reflect the cumulative total of all PV installed, not just the 2002 total.

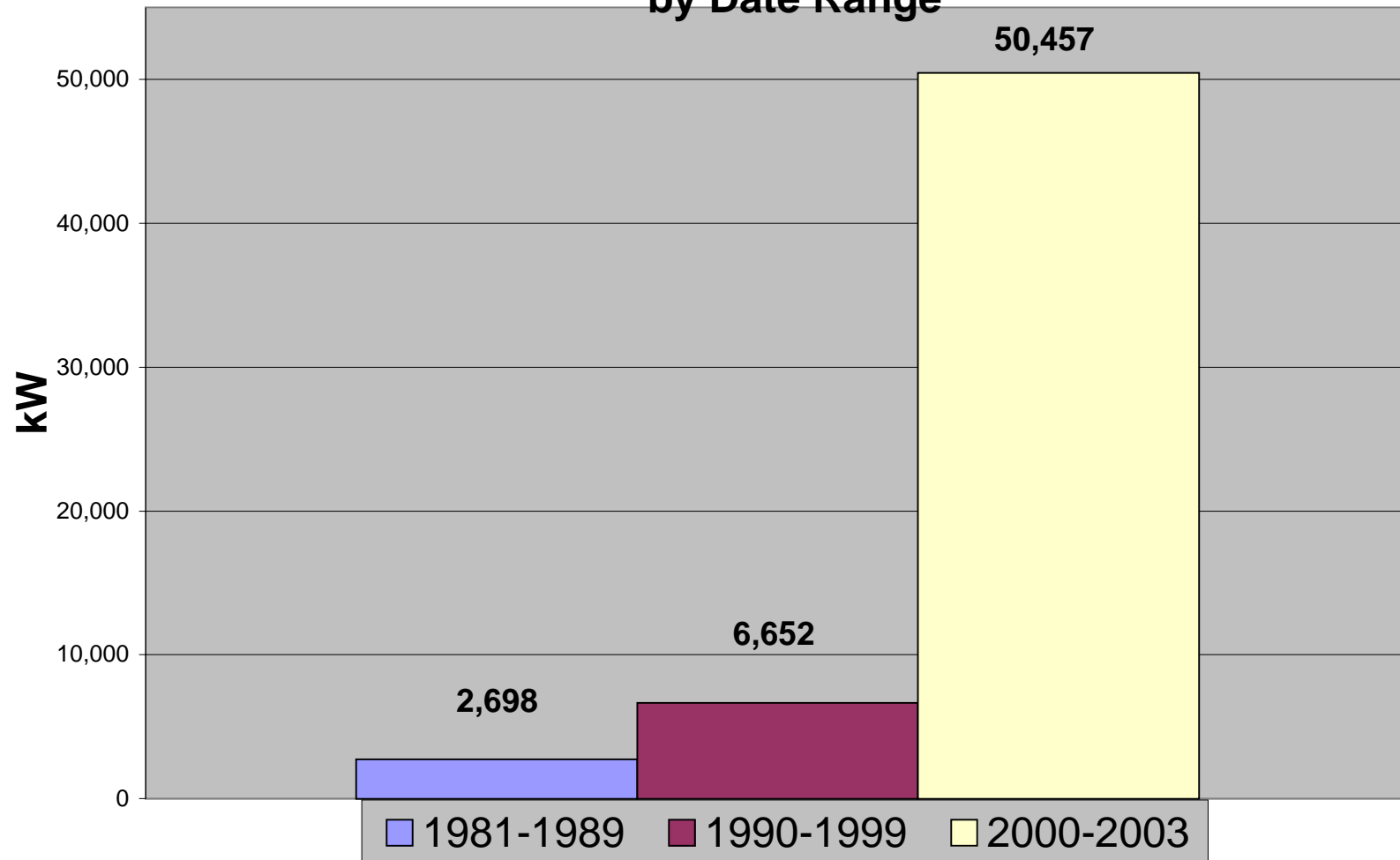
Many of the utilities contacted had, at one time, a solar rebate program. It is possible other utilities have rebate programs, or other utilities may have installed PV, but those are not accounted for in this summary.

The Energy Commission numbers do not include any Publicly Owned Electric Utility installed systems. The Energy Commission has paid for 334 kW of these systems. However, to avoid double counting, these numbers were subtracted from the yearly totals.

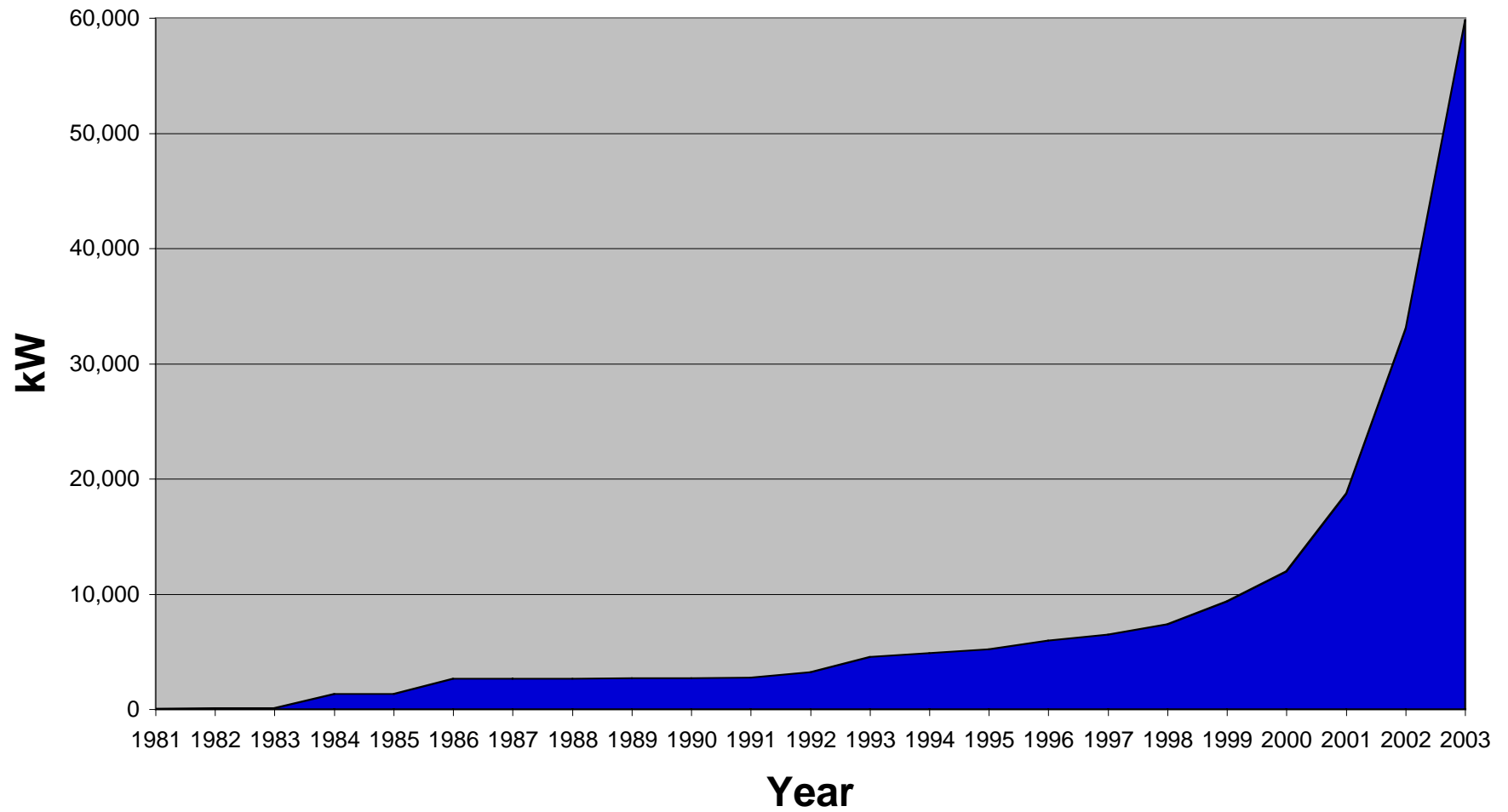
# Grid-Connected PV Capacity Installed in California By Year



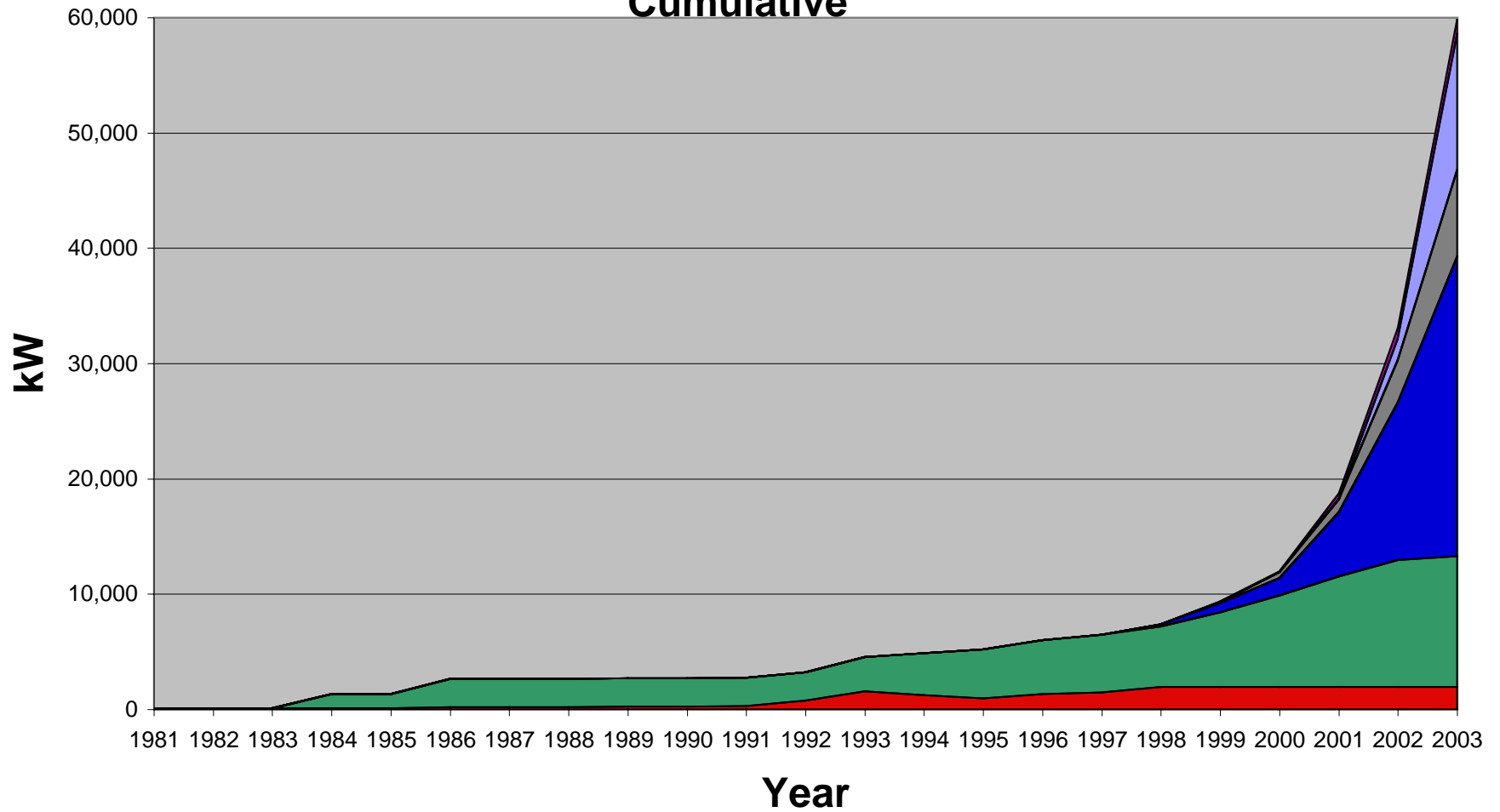
## Grid-Connected PV Capacity Installed in California by Date Range



## Grid-Connected PV Capacity Installed in California Cumulative

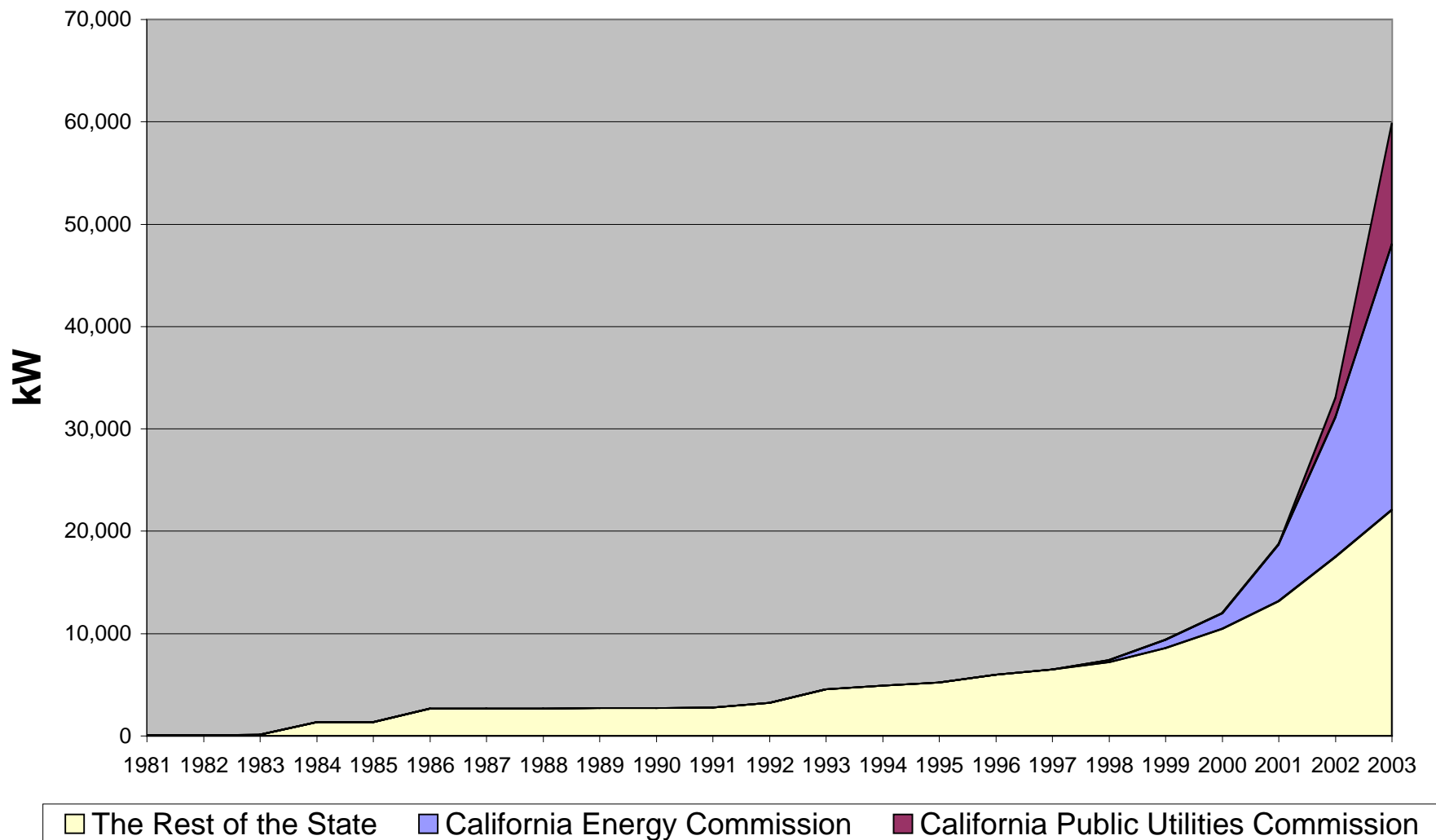


## Grid-Connected PV Capacity Installed in California Cumulative

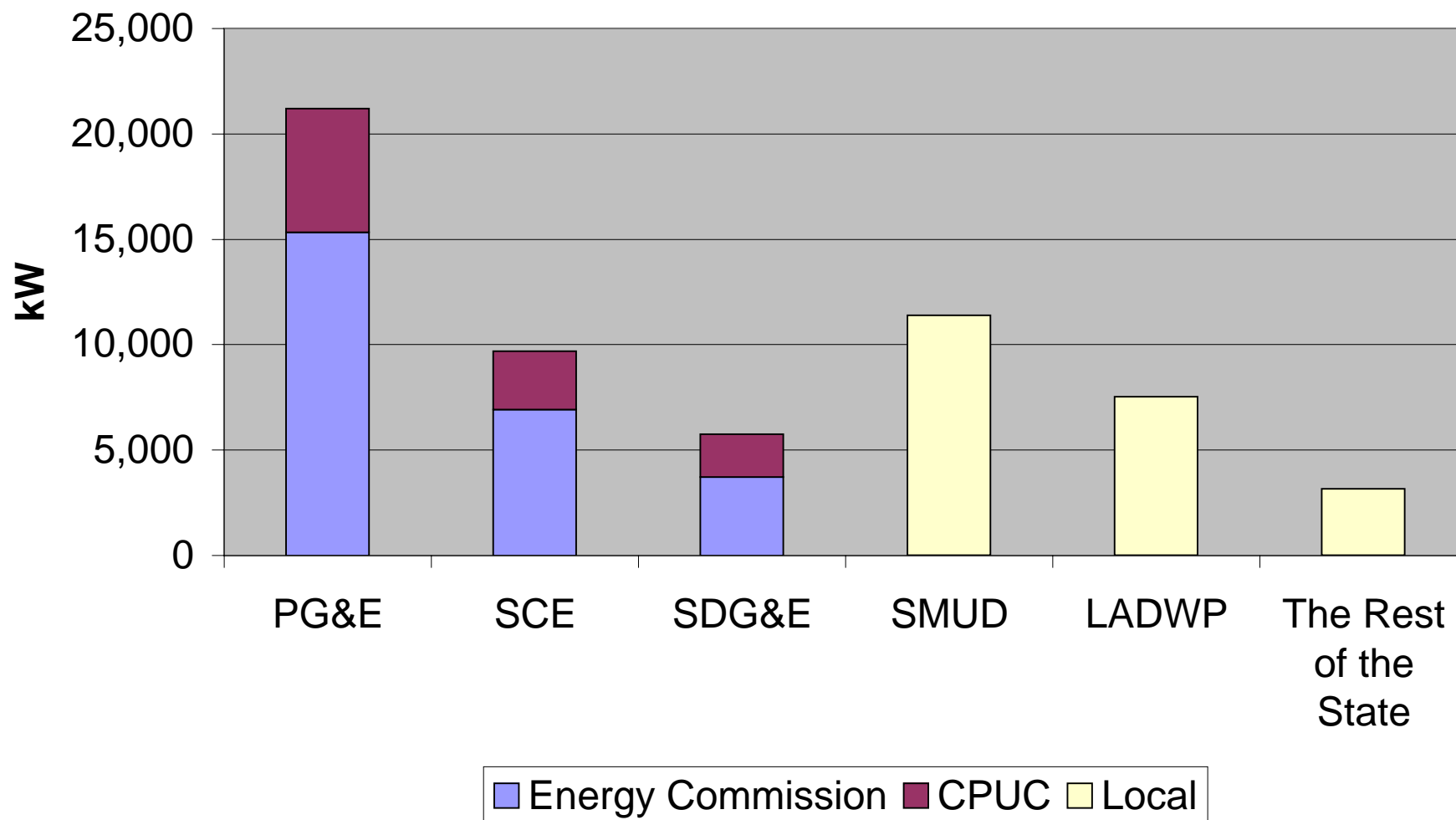


Unknown SMUD Energy Commission LADWP CPUC Other

## Grid-Connected PV Capacity Installed in California Cumulative

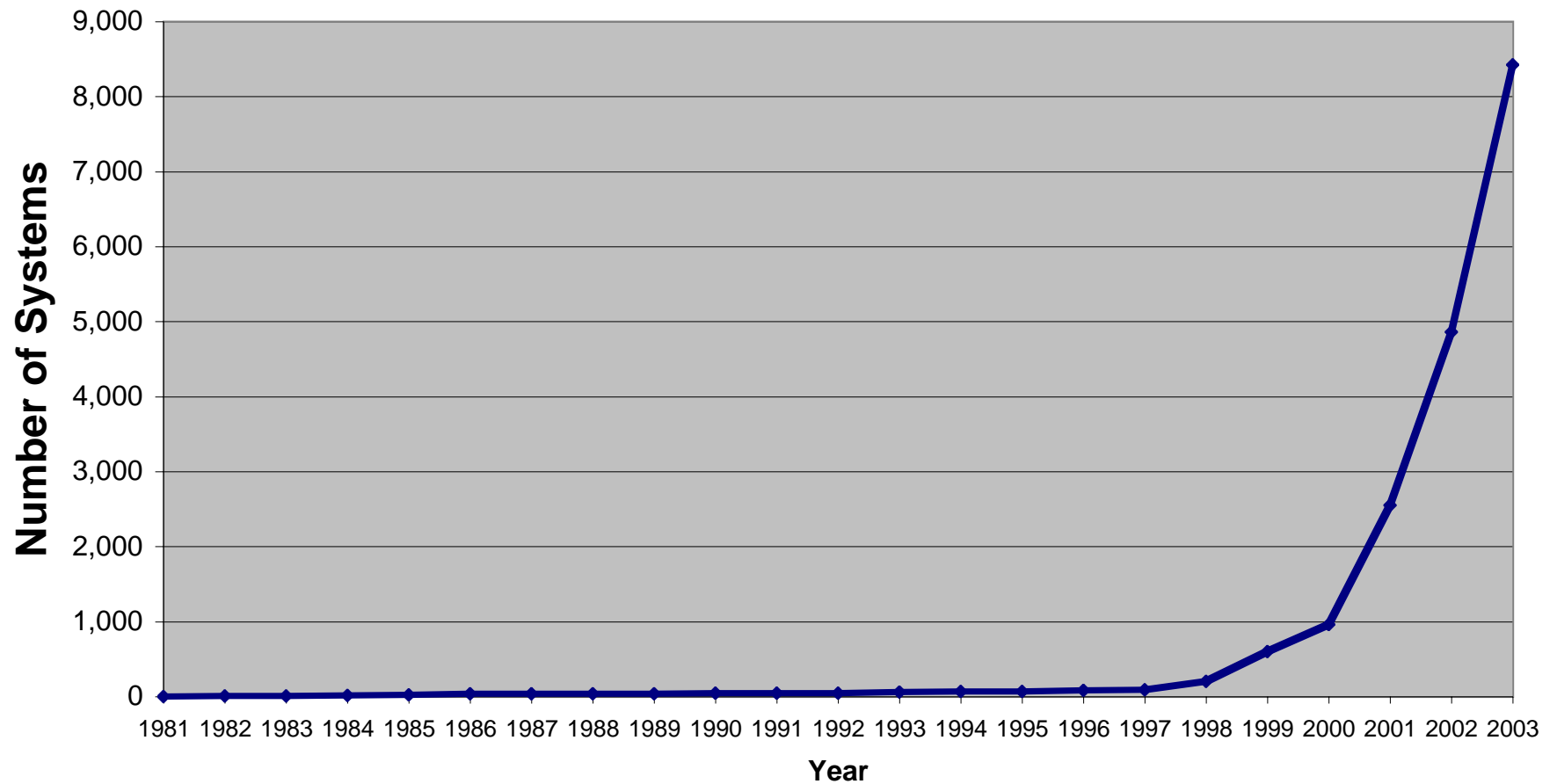


## Grid-Connected PV Capacity Installed in California by Service Territory





## Number of Grid-Connected PV Systems Installed In California Cumulative



# Grid-Connected PV Program Contacts in California

Program	Contact	Telephone	Email
<b>California Energy Commission*</b>	Dale Trenchel	916-653-2834	Dtrench@energy.state.ca.us
<b>California Public Utilities Commission*</b>	John Galloway	415-703-2565	jhg@cpuc.ca.gov
PG&E	Dean Heatherington	415-973-2362	selfgen@pge.com
SCE	Howard Green	626-302-8436	greenh@sce.com
SDG&E	Mike Magee	858-244-1177	selfgen@sdenergy.org
SCGC	Marshall Kiyohiro	213-244-5619	selfgeneration@socalgas.com
<b>Sacramento Municipal Utility District</b>	Stephen Frantz	916-732-5107	SFrantz@smud.org
<b>Los Angeles Department of Water and Power</b>	Thomas Honles	213-367-3151	thomas.honles@ladwp.com
<b>City of Palo Alto Utilities</b>	Lindsay Joye	650-329-2241	pvparkers@cityofpaloalto.org
<b>City of Santa Clara Electric Utility</b>	Leslie Brown	408-244-SAVE	lbrown@ci.santa-clara.ca.us
<b>City of Pasadena Water and Power</b>	Mauricio Mejia	626-744-6970	mmejia@ci.pasadena.ca.us
<b>City of Burbank Water and Power</b>	John Joyce	818-238-3653	jjoyce@ci.burbank.ca.us
<b>City of Anaheim Public Utilities</b>	Dina Predsik	714-765-4182	dpredsik@anaheim.net
<b>City of Redding Electric Utility</b>	Pam Brady-Koss	530-339-7215	pbradykoss@reddingelectricutility.com
<b>City of Glendale Water and Electric</b>	Ned Bassin	818-548-2748	nbassin@ci.glendale.ca.us
<b>City of Riverside Public Utilities</b>	Atoya Mendez	909-826-5790	amendez@ci.riverside.ca.us
<b>City of Roseville Electric</b>	Pat Morrison	916-774-5624	pmorrison@roseville.ca.us
<b>Pacific Power</b>	Michael Reid	503-813-6052	michael.reid@pacificorp.com
<b>City of Alameda Power and Telecom</b>	Don Rushton	510-748-3946	drushton@alamedapt.com
<b>City of Ukiah Public Utilities</b>	Cindy Sauers	707-463-6295	cindys@cityofukiah.com
<b>City of Lodi Electric Utility</b>	Rob Lechner	209-333-6800 x 2583	rlechner@lodielelectric.com

## Grid-Connected PV Program Alternate Contacts in California

Program	Contact	Telephone	Email
<b>California Energy Commission*</b>	Todd Lieberg	916-654-4059	tlieberg@energy.state.ca.us
<b>California Public Utilities Commission*</b>	John Galloway	415-703-2565	jhg@cpuc.ca.gov
PG&E	Sara Birmingham	415-973-5187	sebb@pge.com
SCE	Mei Wong	626-302-1746	<a href="mailto:Mei.Wong@sce.com">Mei.Wong@sce.com</a>
SDG&E	Scott Anders	858-244-1177	san@sdenergy.org
SCGC	Tony Prietto	213-244-3679	aprietto@semprautilities.com
<b>Sacramento Municipal Utility District</b>	Stephen Frantz	916-732-5107	SFrantz@smud.org
<b>Los Angeles Department of Water and Power</b>	Darryl Gordon	213-367-3250	dgord1@ladwp.com
<b>City of Palo Alto Utilities</b>	Lindsay Joye	650-329-2241	pvparkers@cityofpaloalto.org
<b>City of Santa Clara Electric Utility</b>	Leslie Brown	408-244-SAVE	lbrown@ci.santa-clara.ca.us
<b>City of Pasadena Water and Power</b>	Mauricio Mejia	626-744-6970	mmejia@ci.pasadena.ca.us
<b>City of Burbank Water and Power</b>	John Joyce	818-238-3653	jjoyce@ci.burbank.ca.us
<b>City of Anaheim Public Utilities</b>	Dina Predisik	714-765-4182	dpredisik@anaheim.net
<b>City of Redding Electric Utility</b>	Pam Brady-Koss	530-339-7215	pbradykoss@reddingelectricutility.com
<b>City of Glendale Water and Electric</b>	Ned Bassin	818-548-2748	nbassin@ci.glendale.ca.us
<b>City of Riverside Public Utilities</b>	Atoya Mendez	909-826-5790	amendez@ci.riverside.ca.us
<b>City of Roseville Electric</b>	Pat Morrison	916-774-5624	pmorrison@roseville.ca.us
<b>Pacific Power</b>	Michael Reid	503-813-6052	michael.reid@pacificorp.com
<b>City of Alameda Power and Telecom</b>	Don Rushton	510-748-3946	drushton@alamedapt.com
<b>City of Ukiah Public Utilities</b>	Cindy Sauers	707-463-6295	cindys@cityofukiah.com
<b>City of Lodi Electric Utility</b>	Rob Lechner	209-333-6800 x 2583	rlechner@lodieletric.com

## Grid-Connected PV Capacity in California

## Graphing Data

## YEAR

Program	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Sacramento Municipal Utility District	0	0	0	1,230	0	1,230	0	0	0	0	0	23	495	675	561	421	405	236	1,220	1,446	1,679	1,390	363	11,374
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181	619	726	4,034	8,110	12,283	25,954
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	360	487	2,041	4,951	7,416	15,316
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	250	133	1,118	2,117	3,167	6,905
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	106	866	1,042	1,675	3,700
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	24	33
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	432	589	2,573	3,829	7,525
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,889	9,928	11,817
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,671	4,208	5,879
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	2,649	2,763
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	1,971	2,045
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1,100	1,130
Pre-1998	37	38	11	12	15	63	0	4	59	15	17	477	806	-336	-250	378	110	464	0	0	0	0	0	1,918
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	101	74	38	245
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	34	14	54
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	0	7
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	84	50	275
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	15	214	379
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	44	62	115
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	0	19
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	5
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	14
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Sacramento Municipal Utility District	0	0	0	1,230	1,230	2,460	2,460	2,460	2,460	2,460	2,460	2,483	2,978	3,653	4,214	4,635	5,040	5,276	6,496	7,942	9,621	11,011	11,374	
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181	800	1,526	5,560	13,671	25,954	
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	534	1,123	3,696	7,525	
California Public Utilities Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,889	11,817	
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,671	5,879	
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	2,763	
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	2,045	
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1,130	
Pre-1998	37	75	86	98	112	175	175	238	253	270	747	1,552	1,216	966	1,345	1,454	1,918	1,918	1,918	1,918	1,918	1,918	1,918	
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	32	133	207	245		
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	36	50	54	
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	7	7		
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	225	275		
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	165	379	
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	9	53	115	
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	19	19	
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	5	5	
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	14	
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	
Total Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	33	51	490	845	1,220	
TOTAL	37	38	11	1,242	15	1,293	0	4	59	15	17	500	1,301	339	311	799	515	885	1,970	2,622	6,742	14,316	26,778	59,807
Cumulative Total	37	75	86	1,328	1,342	2,635	2,635	2,639	2,698	2,713	2,730	3,230	4,530	4,869	5,180	5,980	6,494	7,379	9,349	11,971	18,713	33,029	59,807	
Total by Year Range	1981-1989	1990-1999	2000-2003																					
	2,698	6,652	50,457																					
PG&E	15,316	5,879																						
SCE	6,905	2,763																						
SDG&E	3,700	2,045																						
SMUD																								
LADWP																								
The Rest of the State																								
	11,374																							
	3,138																							

# Grid-Connected PV Systems Installed in California

Program	YEAR																							Total
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003**	
Sacramento Municipal Utility District	0	0	0	1	0	1	0	0	0	0	0	6	56	124	113	62	17	37	211	134	306	0	68	1,136
California Energy Commission*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	180	215	1,238	2,226	2,871	6,771
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	127	125	650	1,309	1,695	3,933
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	47	59	311	585	712	1,728
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	31	275	332	457	1,101
Bear Valley Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	9
Los Angeles Department of Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	488	488
California Public Utilities Commission*																					0	15	77	92
Pacific Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	47	56
Southern California Edison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	23	26
San Diego Gas and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8
***Southern California Gas Company	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Pre-1998	2	2	4	4	6	16	0	1	4	1	2	-3	-45	-118	-108	-52	-7	37	0	0	0	0	0	-254
City of Palo Alto Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	28	22	16	76
City of Santa Clara Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	4	17
City of Pasadena Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Burbank Water and Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3
City of Anaheim Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	12	36
City of Redding Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Glendale Water and Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Riverside Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8
City of Roseville Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	39
Pacific Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Alameda Power and Telecom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Ukiah Public Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8
City of Lodi Electric Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	4	5	6	17	0	1	4	1	2	3	11	6	5	10	10	115	396	357	1,591	2,309	3,563	8,420
Cumulative Total	2	4	8	13	19	36	36	37	41	42	44	47	58	64	69	79	89	204	600	957	2,548	4,857	8,420	

## NOTES

Numerous utilities have not yet provided the data to determine how many systems were installed per year.

"Pre-1998" Row: These numbers were derived by subtracting the total number of systems installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.